IN THE SPECIFICATION

Please amend the term "ketjen black" to "KETJENBLACKTM" to appropriately acknowledge the proprietary nature of the term.

On page 10, please replace the first full paragraph with the following amended paragraph:

To the anode mixture layer 9 is added a gas adsorbing carbon material, capable of adsorbing a gas evolved in the battery. The gas adsorbing carbon material is, for example, a carbonaceous material having a specific surface not less than 30 m²/g as measured by the BET method, and may be exemplified by carbon black, such as acetylene black or Ketjen Black KETJENBLACKTM, and activated carbon, having a specific surface generally on the order of 700 to 1600 m²/g. These materials may be used either singly or in combination.

On page 30, please replace the first full paragraph with the following amended paragraph:

A cathode was then prepared. In producing the cathode, 95 parts by weight of powdered LiCoO₂, as a cathode active material, 2 parts by weight of Ketjen Black KETJENBLACKTM, manufactured by LION CORPORATION, as an electrically conductive material, 3 parts by weight of PVdF as a binder, and NMP as a solvent, were mixed and kneaded together by a planetary mixer, for dispersion, in order to prepare a coating solution of the cathode mixture. Using a die coater as a coating apparatus, the coating solution of the cathode mixture was coated uniformly on each surface of a strip-shaped aluminum foil, 20μm thick, as a cathode current collector. The resulting product was dried in situ for 24 hours at 100°C under reduced pressure and molded under compression in a roll press to form a layer of the cathode mixture, which then was cut to a predetermined size. A cathode lead terminal of aluminum then was connected to the exposed cathode collector portions by ultrasonic welding. This completes an elongated cathode.

On page 33, please replace the second full paragraph, with the following amended paragraph:

In the sample 4, an anode was prepared in the same way as in the sample 1, except that Ketjen Black KETJENBLACKTM, with the specific surface as measured by the BET method equal to 800 m²/g, manufactured by LION CORPORATION, was used as a gas adsorbing

carbon material. A polymer battery was prepared in the same way as the sample 1, except that this anode was used in this sample 4.

On page 38, please replace Table 1, with the following amended table:

Table 1

| | gas absorbing carbon | 1 | material added to anode charging/ | charging/ | swell due to | swell due to battery temperature |
|----------|----------------------|---------------------|-----------------------------------|-------------|--------------|----------------------------------|
| | mixture layer | | | discharging | high | in over-charging |
| | type | specific | amount of | efficiency | temperature | (°C) |
| | | surface | addition (wt%) (%) | (%) | storage (%) | |
| | | (m ² /g) | | | | |
| sample 1 | acetylene black | 30 | 0.5 | 78 | 180 | 06 |
| sample 2 | acetylene black | 70 | 0.5 | 77 | 166 | 68 |
| sample 3 | acetylene black | 130 | 0.5 | 78 | 141 | 06 |
| sample 4 | Ketjen Black | 800 | 0.5 | 77 | 120 | 88 |
| | KETJENBLACKTM | | | | | |
| sample 5 | activated carbon | 008 | 0.5 | 77 | 120 | 06 |
| sample 6 | acetylene black | 130 | 0.1 | 62 | 180 | 06 |
| sample 7 | acetylene black | 130 | 0.3 | 78 | 127 | 68 |
| sample 8 | acetylene black | 130 | 1 | 77 | 118 | 91 |

| 68 | 68 | 88 | 02 | 88 | 68 | 68 |
|-----------------|---------------------------|-----------------|-----------|---------------------------|---------------------------|---------------------------|
| 116 | 114 | 112 | 316 | 190 | 230 | 110 |
| 77 | 92 | 74 | 78 | 28 | 28 | 89 |
| 3 | 5 | 9 | 1 | 0.5 | 0.05 | 6 |
| 130 | 130 | 130 | ı | 15 | 130 | 130 |
| acetylene black | sample 10 acetylene black | acetylene black | ı | sample 13 acetylene black | sample 14 acetylene black | sample 15 acetylene black |
| sample 9 | sample 10 | sample 11 | sample 12 | sample 13 | sample 14 | sample 15 |

On page 43, please replace fourth full paragraph and continuing with second and third full paragraphs on page 44 with amended paragraphs:

In the sample 16, a cathode in which the gas adsorbing carbon material had been added at 0.2 wt% of the total weight of the entire cathode mixture layer was prepared in the same way as in sample 1, except preparing a coating solution of the cathode mixture by mixing 96.8 parts by weight of LiCoO₂, 0.2 part by weight of Ketjen Black KETJENBLACKTM with the specific surface of 800 m²/g as measured by the BET method, manufactured by LION CORPORATION, as a gas adsorbing carbon material/ electrically conductive material, 3 parts by weight of PVdF as a binder, and NMP as a solvent, subjecting the resulting mixture to dispersion and employing the so produced coating solution. A polymer battery, in which the gas adsorbing carbon material had been added only to the cathode mixture layer, was prepared in the same way as the sample 12 except that this cathode was employed in this sample 16.

In the sample 17, a cathode was prepared in the same way as in the sample 16, except that Ketjen Black KETJENBLACKTM was added as a gas adsorbing carbon material at 0.5 wt% of the total weight of the entire cathode mixture layer. A polymer battery was prepared in the same way as in the sample 16, except that this cathode was employed in this sample 17.

In the sample 18, a cathode was prepared in the same way as in the sample 16, except that Ketjen Black KETJENBLACKTM was added as a gas adsorbing carbon material at 1 wt% of the total weight of the entire cathode mixture layer. A polymer battery was prepared in the same way as in the sample 16, except that this cathode was employed in this sample 18.

On page 45, please replace paragraph one, with the following amended paragraph:

In the sample 19, a cathode was prepared in the same way as in the sample 16, except that Ketjen Black KETJENBLACKTM was added as a gas adsorbing carbon material at 3.5 wt% of the total weight of the entire cathode mixture layer. A polymer battery was prepared in the same way as in the sample 16, except that this cathode was employed in this sample 19.

On page 45, please replace paragraphs three and four with the following amended paragraphs:

In the sample 21, a cathode was prepared in the same way as in the sample 16, except that Ketjen Black KETJENBLACKTM was added as a gas adsorbing carbon material at 0.1 wt% of the total weight of the entire cathode mixture layer. A polymer battery was prepared in the same way as in the sample 16 except that this cathode was used in this sample 21.

In the sample 22, a cathode was prepared in the same way as in the sample 16, except that Ketjen Black KETJENBLACKTM was added as a gas adsorbing carbon material at 4 wt% of the total weight of the entire cathode mixture layer. A polymer battery was prepared in the same way as in the sample 16, except that this cathode was employed in this sample 22.

On page 47, please replace the Table 2, with the following amended Table.

| | gas absorbing carbon material added to cathode charging/ | material | added to cathode | charging/ | amount of swell battery | battery |
|-----------|--|-----------|----------------------|---------------|----------------------------------|----------------|
| | mixture layer | | | discharging | due to storage at temperature in | temperature in |
| | type | specific | amount of | of efficiency | elevated | over-charging |
| | 1 | surface | addition (wt%) (%) | (%) | temperatures (%) (°C) | (C) |
| | | (m^2/g) | | | | |
| sample 16 | Ketjen Black | 800 | 0.2 | 78 | 182 | 08 |
| 1 | KETJENBLACKTM | | | | | |
| sample 17 | Ketjen Black | 800 | 0.5 | LL | 167 | 84 |
| ı | KETJENBLACKTM | | | | | |
| sample 18 | Ketjen Black | 800 | 1 | 78 | 152 | 87 |
| · | KETJENBLACKTM | | | | | |
| sample 19 | Ketjen Black | 800 | 3.5 | LL | 141 | 06 |
| ı | KETJENBLACKTM | | | | | |
| sample 20 | 1 | ı | 1 | 40 | 450 | 70 |
| sample 21 | Ketjen Black | 008 | 0.1 | LL | 195 | 77 |
| ı | KETJENBLACKTM | | | | | |
| sample 22 | Ketjen Black | 800 | 4 | 08 | 150 | >200 |
| 1 | KETJENBLACKTM | | | | | |

On page 49, please replace the second, third and fourth paragraphs with the following amended paragraphs:

From the results of evaluation shown in Table 2, the charging/discharging capacity is appreciably larger and the amount of swell on storage under elevated temperatures is appreciably smaller in the samples 16 to 19 where Ketjen Black KETJENBLACKTM is added in an amount not less than 0.2 wt% and not larger than 3.5 wt% than in the sample 20 where no Ketjen Black KETJENBLACKTM as an electrically conductive material/ gas adsorbing carbon material is added.

In the sample 20, in which Ketjen Black KETJENBLACKTM as an electrically conductive material/ gas adsorbing carbon material is not added to the cathode mixture layer, the cathode mixture layer is deteriorated in electrical conductivity, thus lowering the battery characteristics. Moreover, in the sample 20, in which no gas adsorbing carbon material is added to the cathode mixture layer, a gas is evolved due to heating and stored in the battery, thus increasing the battery thickness to a large extent.

From the results of evaluation shown in Table 2, the amount of swell caused by storage under elevated temperatures is smaller in the samples 16 to 19 than in the sample 21 where 0.1 wt% of Ketjen Black KETJENBLACKTM is added to the cathode mixture layer.

On page 50, please replace paragraphs one, two, three and four with the following amended paragraphs:

In the sample 21, where the amount of addition of Ketjen Black

KETJENBLACKTM as an electrically conductive material/ gas adsorbing carbon material is 0.1 wt% of the total weight of the cathode mixture layer, such that the amount of Ketjen Black KETJENBLACKTM added to the cathode mixture layer is small, the amount of the gas evolved on heating in the battery which is adsorbed to Ketjen Black KETJENBLACKTM is also small. Thus, in the sample 21, the amount of the gas stored in the battery is large to increase the battery thickness.

From the results of evaluation shown in Table 2, it is also seen that the battery temperature at the time of over-charging is lowered appreciably in the samples 16 to 19 as compared to that of the sample 22 in which 4 wt% of Ketjen Black KETJENBLACKTM is added to the cathode mixture layer.

In the sample 22, in which the amount of addition of Ketjen Black KETJENBLACKTM as an electrically conductive material/ gas adsorbing carbon material is 4 wt% of the total weight of the cathode mixture layer, such that the amount of highly electrically conductive Ketjen Black KETJENBLACKTM added to the cathode mixture layer is excessively large, the electrical conductivity of the cathode mixture layer is increased excessively due to the excess amount of Ketjen Black KETJENBLACKTM. The result is that the battery temperature is raised in case the battery is in the excessively charged state to render it difficult to maintain the battery safety.

In these samples 16 to 19, in contradistinction from the samples 20 to 22, the amount of addition of Ketjen Black KETJENBLACKTM as an electrically conductive material/ gas adsorbing carbon material is moderate, being not less than 0.2 wt% and not larger than 3.5 wt%, so that it is possible to prevent the gas from being accumulated in the battery to achieve excellent battery characteristics and safety.

On page 51, please replace first full paragraph with the following amended paragraph:

It is seen from above that addition of Ketjen Black KETJENBLACKTM as an electrically conductive material/ gas adsorbing carbon material in an amount not less than 0.2 wt% and not larger than 3.5 wt% of the total weight of the cathode mixture layer is highly effective in manufacturing a polymer battery in which the amount of swell due to storage at elevated temperatures is suppressed and the battery safety in over-charging is raised.

On page 51, please replace paragraph three with the following amended paragraph:

In the sample 23, a cathode in which a gas adsorbing carbon material was added at 0.2 wt% of the total weight of the entire cathode mixture layer was prepared in the same way as in sample 1, except employing a coating solution of the cathode mixture prepared by mixing and dispersing 94.8 parts by weight of LiCoO₂, 2 wt% of Ketjen Black KETJENBLACKTM as an electrically conductive material, 0.2 part by weight of activated carbon with the specific surface of 800 m²/g as measured by the BET method, manufactured by KANTO KAGAKU KK, as a gas adsorbing carbon material, 3 parts by weight of PVdF, as a binder, and NMP as a solvent. A polymer battery, in which the gas adsorbing carbon material is deposited only to the cathode mixture layer, was prepared in the same way as in the sample 12, except that this cathode was used in this sample 23.

On page 58, please replace third full paragraph with the following amended paragraph:

In the sample 31, an anode was prepared in the same way as in the sample 30, described above, except forming the gas adsorbing carbon layer on the exposed anode current collector portion, using Ketjen Black KETJENBLACKTM with the specific surface as measured by the BET method of 800 m²/g, as the gas adsorbing carbon material, manufactured by LION CORPORATION. A polymer battery, having the gas adsorbing carbon layer on the anode, was prepared in the same way as in the sample 1, except that this anode was used in this sample 31.

On page 60, please replace second full paragraph with the following amended paragraph:

In the sample 35, a cathode was prepared in the same way as in the sample 34, described above, except forming the gas adsorbing carbon layer on the exposed cathode current collector portion, using Ketjen-Black KETJENBLACKTM with the specific surface as measured by the BET method of 800 m²/g, manufactured by LION CORPORATION, as the gas adsorbing carbon material. A polymer battery, having the gas adsorbing carbon

layer on the cathode, was prepared in the same way as in the sample 12, except that this anode was used in this sample 35.

On pages 63 and 64, please replace Table 4 with the following Table:

Table 4

| | gas absorbing carbon la | yer | charging/ | swell on storage at | battery |
|-----------|---------------------------|-------------------|----------------|---------------------|----------|
| | sort of gas absorbing | | discharging | high temperature | over-cha |
| | carbon layer | position | efficiency (%) | (%) | |
| sample 30 | acetylene black | exposed anode | 78 | 110 | 91 |
| | | collector part | | | |
| sample 31 | Ketjen Black | exposed anode | 79 | 101 | 91 |
| | KETJENBLACK TM | collector part | | | |
| sample 32 | activated carbon | exposed anode | 77 | 101 | 89 |
| | | collector part | | | |
| sample 33 | carbon tape | exposed anode | 77 | 176 | 90 |
| | | collector part | | | |
| sample 34 | acetylene black | exposed cathode | 78 | 110 | 89 |
| | | collector part | | | |
| sample 35 | Ketjen Black | exposed cathode | 78 | 101 | 90 |
| | KETJENBLACK TM | collector part | | | |
| sample 36 | activated carbon | exposed cathode | 78 | 101 | 88 |
| | | collector part | | | |
| sample 37 | carbon tape | exposed cathode | 78 | 177 | 89 |
| | | collector part | | | |
| Sample 38 | activated carbon | exposed anode | 78 | 100 | 90 |
| | | collector part | | | |
| | activated carbon | exposed cathode | | | |
| | | collector part | | | |
| sample 39 | carbon tape | inner surface of | 78 | 185 | 88 |
| | | exterior material | | | |
| sample 12 | - | _ | 78 | 316 | 70 |